



\$

Certificate of Mailing Under 37 CFT § 1.8

I hereby certify that this correspondence and documents referred to herein  
(**Declaration & Drawings**) were deposited with the United States Postal Service  
addressed to:

MS Missing Parts  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

on the date shown below:

Date of Deposit: 12 Jan 04

Person Making Deposit: Michael M. Morris

Signature: Michael M. Morris

Application Serial No. -10/661,401 - SD-8476

For Applicant(s): Harnett



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>FREE TRANSMITTAL FOR FY 2004</b>  <small>Patent fees are subject to annual revision. Small Entity payments <u>must</u> be supported by a small entity statement, Otherwise large entity fees must be paid. See Forms PTO/SB/09-12.</small>	<b>Complete if Known</b>	
	Application Number	10/661,401
	Filing Date	September 11, 2003
	First Named Inventor	Harnett
	Examiner Name	NOT ASSIGNED
	Group / Art Unit	NOT ASSIGNED
TOTAL AMOUNT OF PAYMENT	(\$1,432.00) Attorney Docket No. SD-8476	

<b>METHOD OF PAYMENT (check one)</b>  The Commissioner is hereby authorized to charge 1. <input checked="" type="checkbox"/> Indicated fees and credit any over payments to: Deposit Account Number <b>50-0583</b> Deposit Account Name <b>SNL BY KCO</b>  <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 2. Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other	<b>FEE CALCULATION (continued)</b>  <b>3. ADDITIONAL FEES</b> <table border="1"><thead><tr><th>Large Fee Code</th><th>Entity Fee (\$)</th><th>Small Fee Code</th><th>Entity Fee (\$)</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - late filing fee or oath</td><td>130.00</td></tr><tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr><tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr><tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr><tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr><tr><td>1805</td><td>1,840</td><td>1805</td><td>1,840</td><td>Requesting publication of SIR after Examiner</td><td></td></tr><tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td></td></tr><tr><td>1252</td><td>420</td><td>2252</td><td>210</td><td>Extension for reply within second month</td><td></td></tr><tr><td>1253</td><td>950</td><td>2253</td><td>475</td><td>Extension for reply within third month</td><td></td></tr><tr><td>1254</td><td>1,480</td><td>2254</td><td>740</td><td>Extension for reply within fourth month</td><td></td></tr><tr><td>1255</td><td>2,010</td><td>2255</td><td>1,005</td><td>Extension for reply within fifth month</td><td></td></tr><tr><td>1401</td><td>330</td><td>2401</td><td>165</td><td>Notice of Appeal</td><td></td></tr><tr><td>1402</td><td>330</td><td>2402</td><td>165</td><td>Filing a brief in support of an appeal</td><td></td></tr><tr><td>1403</td><td>290</td><td>2403</td><td>145</td><td>Request for oral hearing</td><td></td></tr><tr><td>1451</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr><tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr><tr><td>1453</td><td>1,330</td><td>2453</td><td>665</td><td>Petition to revive - unintentional</td><td></td></tr><tr><td>1501</td><td>1,330</td><td>2501</td><td>665</td><td>Utility issue fee (or reissue)</td><td></td></tr><tr><td>1502</td><td>460</td><td>2502</td><td>230</td><td>Design issue fee</td><td></td></tr><tr><td>1503</td><td>640</td><td>2503</td><td>320</td><td>Plant issue fee</td><td></td></tr><tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr><tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr><tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr><tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr><tr><td>1809</td><td>770</td><td>2809</td><td>385</td><td>Filing a submission after final refection (37 CFR 1.129(a))</td><td></td></tr><tr><td>1810</td><td>770</td><td>2810</td><td>385</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr><tr><td colspan="5">Other fee (specify) _____</td><td></td></tr><tr><td colspan="5">Other fee (specify) _____</td><td></td></tr><tr><td colspan="5">*Reduced by Basic Filing Fee Paid</td><td>SUBTOTAL (3) \$130.00-</td></tr></tbody></table>	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	1051	130	2051	65	Surcharge - late filing fee or oath	130.00	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet		1053	130	1053	130	Non-English specification		1812	2,520	1812	2,520	For filing a request for reexamination		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		1805	1,840	1805	1,840	Requesting publication of SIR after Examiner		1251	110	2251	55	Extension for reply within first month		1252	420	2252	210	Extension for reply within second month		1253	950	2253	475	Extension for reply within third month		1254	1,480	2254	740	Extension for reply within fourth month		1255	2,010	2255	1,005	Extension for reply within fifth month		1401	330	2401	165	Notice of Appeal		1402	330	2402	165	Filing a brief in support of an appeal		1403	290	2403	145	Request for oral hearing		1451	1,510	138	1,510	Petition to institute a public use proceeding		1452	110	2452	55	Petition to revive - unavoidable		1453	1,330	2453	665	Petition to revive - unintentional		1501	1,330	2501	665	Utility issue fee (or reissue)		1502	460	2502	230	Design issue fee		1503	640	2503	320	Plant issue fee		1460	130	1460	130	Petitions to the Commissioner		1807	50	1807	50	Petitions related to provisional applications		1806	180	1806	180	Submission of Information Disclosure Stmt		8021	40	8021	40	Recording each patent assignment per property (times number of properties)		1809	770	2809	385	Filing a submission after final refection (37 CFR 1.129(a))		1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))		Other fee (specify) _____						Other fee (specify) _____						*Reduced by Basic Filing Fee Paid					SUBTOTAL (3) \$130.00-
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																
1051	130	2051	65	Surcharge - late filing fee or oath	130.00																																																																																																																																																																																
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																	
1053	130	1053	130	Non-English specification																																																																																																																																																																																	
1812	2,520	1812	2,520	For filing a request for reexamination																																																																																																																																																																																	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																	
1805	1,840	1805	1,840	Requesting publication of SIR after Examiner																																																																																																																																																																																	
1251	110	2251	55	Extension for reply within first month																																																																																																																																																																																	
1252	420	2252	210	Extension for reply within second month																																																																																																																																																																																	
1253	950	2253	475	Extension for reply within third month																																																																																																																																																																																	
1254	1,480	2254	740	Extension for reply within fourth month																																																																																																																																																																																	
1255	2,010	2255	1,005	Extension for reply within fifth month																																																																																																																																																																																	
1401	330	2401	165	Notice of Appeal																																																																																																																																																																																	
1402	330	2402	165	Filing a brief in support of an appeal																																																																																																																																																																																	
1403	290	2403	145	Request for oral hearing																																																																																																																																																																																	
1451	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																																	
1452	110	2452	55	Petition to revive - unavoidable																																																																																																																																																																																	
1453	1,330	2453	665	Petition to revive - unintentional																																																																																																																																																																																	
1501	1,330	2501	665	Utility issue fee (or reissue)																																																																																																																																																																																	
1502	460	2502	230	Design issue fee																																																																																																																																																																																	
1503	640	2503	320	Plant issue fee																																																																																																																																																																																	
1460	130	1460	130	Petitions to the Commissioner																																																																																																																																																																																	
1807	50	1807	50	Petitions related to provisional applications																																																																																																																																																																																	
1806	180	1806	180	Submission of Information Disclosure Stmt																																																																																																																																																																																	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																																	
1809	770	2809	385	Filing a submission after final refection (37 CFR 1.129(a))																																																																																																																																																																																	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																	
Other fee (specify) _____																																																																																																																																																																																					
Other fee (specify) _____																																																																																																																																																																																					
*Reduced by Basic Filing Fee Paid					SUBTOTAL (3) \$130.00-																																																																																																																																																																																
<b>FEE CALCULATION</b>  <b>1. BASIC FILING FEE</b> <table border="1"><thead><tr><th>Large Fee Code</th><th>Entity Fee (\$)</th><th>Small Fee Code</th><th>Entity Fee (\$)</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>1001</td><td>770</td><td>2001</td><td>370</td><td>Utility filing fee</td><td>770.</td></tr><tr><td>1002</td><td>340</td><td>2002</td><td>170</td><td>Design filing fee</td><td></td></tr><tr><td>1003</td><td>530</td><td>2003</td><td>265</td><td>Plant filing fee</td><td></td></tr><tr><td>1004</td><td>770</td><td>2004</td><td>385</td><td>Reissue filing fee</td><td></td></tr><tr><td>1005</td><td>160</td><td>2005</td><td>80</td><td>Provisional filing fee</td><td></td></tr><tr><td colspan="5">SUBTOTAL (1)</td><td>\$770.00</td></tr></tbody></table> <b>2. EXTRA CLAIM FEES</b> <table border="1"><thead><tr><th colspan="2">Total Claims</th><th>Extra Claims</th><th>Req. Fee</th><th>Fee Paid</th></tr></thead><tbody><tr><td>40</td><td>-20**=</td><td>20</td><td>X 18.</td><td>= 360.</td></tr><tr><td>5</td><td>- 3**=</td><td>2</td><td>X 86.</td><td>= 172.</td></tr><tr><td colspan="2">Multiple Dependent</td><td>-0-</td><td></td><td>= -0-</td></tr></tbody></table> <p>**or number previously paid, if greater; For Reissues, see below.</p> <table border="1"><thead><tr><th>Large Fee Code</th><th>Entity Fee (\$)</th><th>Small Fee Code</th><th>Entity Fee (\$)</th><th>Fee Description</th></tr></thead><tbody><tr><td>1201</td><td>84</td><td>2202</td><td>42</td><td>Independent claims in excess of 3</td></tr><tr><td>1202</td><td>18</td><td>2201</td><td>9</td><td>Claims in excess of 20</td></tr><tr><td>1203</td><td>280</td><td>204</td><td>140</td><td>Multiple dependent claim, if not paid</td></tr><tr><td>1204</td><td>84</td><td>2204</td><td>42</td><td>**Reissue independent claims over original patent</td></tr><tr><td>1205</td><td>18</td><td>2205</td><td>9</td><td>**Reissue claims in excess of 20 and over original patent</td></tr></tbody></table> SUBTOTAL (2) (\$532.00)	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	1001	770	2001	370	Utility filing fee	770.	1002	340	2002	170	Design filing fee		1003	530	2003	265	Plant filing fee		1004	770	2004	385	Reissue filing fee		1005	160	2005	80	Provisional filing fee		SUBTOTAL (1)					\$770.00	Total Claims		Extra Claims	Req. Fee	Fee Paid	40	-20**=	20	X 18.	= 360.	5	- 3**=	2	X 86.	= 172.	Multiple Dependent		-0-		= -0-	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	1201	84	2202	42	Independent claims in excess of 3	1202	18	2201	9	Claims in excess of 20	1203	280	204	140	Multiple dependent claim, if not paid	1204	84	2204	42	**Reissue independent claims over original patent	1205	18	2205	9	**Reissue claims in excess of 20 and over original patent																																																																																									
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																
1001	770	2001	370	Utility filing fee	770.																																																																																																																																																																																
1002	340	2002	170	Design filing fee																																																																																																																																																																																	
1003	530	2003	265	Plant filing fee																																																																																																																																																																																	
1004	770	2004	385	Reissue filing fee																																																																																																																																																																																	
1005	160	2005	80	Provisional filing fee																																																																																																																																																																																	
SUBTOTAL (1)					\$770.00																																																																																																																																																																																
Total Claims		Extra Claims	Req. Fee	Fee Paid																																																																																																																																																																																	
40	-20**=	20	X 18.	= 360.																																																																																																																																																																																	
5	- 3**=	2	X 86.	= 172.																																																																																																																																																																																	
Multiple Dependent		-0-		= -0-																																																																																																																																																																																	
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description																																																																																																																																																																																	
1201	84	2202	42	Independent claims in excess of 3																																																																																																																																																																																	
1202	18	2201	9	Claims in excess of 20																																																																																																																																																																																	
1203	280	204	140	Multiple dependent claim, if not paid																																																																																																																																																																																	
1204	84	2204	42	**Reissue independent claims over original patent																																																																																																																																																																																	
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent																																																																																																																																																																																	

<b>SUBMITTED BY</b>		<b>Complete (if applicable)</b>	
Name (Print/Type)	Timothy P. Evans	Reg. Number (Attorney/Agent)	41,013 Telephone (925) 294-3690
Signature		Date	1/8/2004

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038

**Burden Hour Statement:** This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

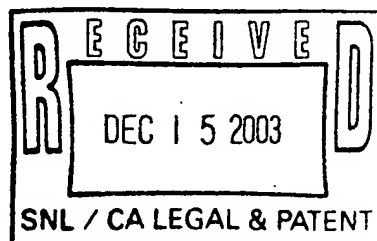


## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/661,401	09/11/2003	Cindy K. Harnett	SD-8476

Timothy P. Evans  
 MS 9031  
 Sandia National Laboratories  
 7011 East Avenue  
 Livermore, CA 94550



CONFIRMATION NO. 6668

## FORMALITIES LETTER



\*OC000000011437847\*

Date Mailed: 12/08/2003

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

01/16/2004 SZEWDIE1 00000020 500583 10661401

FILED UNDER 37 CFR 1.53(b)

01 FC:1001 770.00 DA  
 02 FC:1051 130.00 DA  
 03 FC:1201 172.00 DA  
 04 FC:1202 360.00 DA

*Filing Date Granted*Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.  
*Applicant must submit \$ 770 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).*
- The oath or declaration is missing.  
*A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121 are required. The drawings submitted are not acceptable because:
  - The drawings have a line quality that is too light to be reproduced (weight of all lines and letters must be heavy enough to permit adequate reproduction) or text that is illegible (reference characters, sheet numbers, and view numbers must be plain and legible) see 37 CFR 1.84(l) and (p)(1)); See Figure(s) 6.

The applicant needs to satisfy supplemental fees problems indicated below.

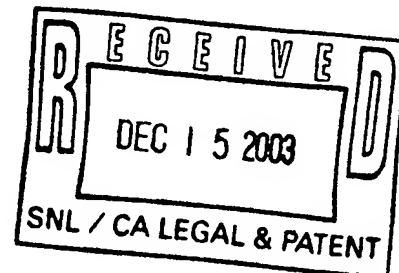
The required item(s) identified below must be timely submitted to avoid abandonment:

- Additional claim fees of **\$532** as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.

**SUMMARY OF FEES DUE:**

Total additional fee(s) required for this application is **\$1432** for a Large Entity

- **\$770** Statutory basic filing fee.
- **\$130** Late oath or declaration Surcharge.
- Total additional claim fee(s) for this application is **\$532**
  - **\$172** for **2** independent claims over 3.
  - **\$360** for **20** total claims over 20.



Replies should be mailed to: Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

---

*A copy of this notice **MUST** be returned with the reply.*

A handwritten signature in black ink, appearing to be "NJ" or similar, written over a horizontal line.

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE